

Chemical Physics

Contents

VOL. 268, NOS. 1-3
15 JUNE 2001

Abstracted/indexed in: Chemical Abstracts, ERDA Abstracts, ISI Current Contents, Inspec Abstracts, Nuclear Engineering Abstracts, Physics Abstracts, Physikalische Berichte/Physics Briefs

Quantum Dynamics of Open Systems

Preface	vii
Iterative path integral calculation of quantum correlation functions for dissipative systems J. Shao and N. Makri	1
The real-time renormalization group approach for the spin-boson model in nonequilibrium M. Keil and H. Schoeller	11
On the Bayesian approach to calculating time correlation functions in quantum systems; reaction dynamics and spectroscopy G. Krilov, E. Sim and B.J. Berne	21
From completely positive maps to the quantum Markovian semigroup master equation D.A. Lidar, Z. Bihary and K.B. Whaley	35
Energy gap dependence of vibrational dephasing rates in a bath: a semigroup description D.M. Lockwood, M. Ratner and R. Kosloff	55
Dissipation in anharmonic molecular systems: beyond the linear coupling limit M. Nest and P. Saalfrank	65
Subsystem dynamics in mixed quantum-classical systems M. Toutounji and R. Kapral	79
Complete parameterization, and invariance, of diffusive quantum trajectories for Markovian open systems H.M. Wiseman and L. Diósi	91
Modeling of ultrafast electron-transfer dynamics: multi-level Redfield theory and validity of approximations D. Egorova, A. Köhl and W. Domcke	105
Perturbative treatment of intercenter coupling in the framework of Redfield theory U. Kleinekathöfer, I. Kondov and M. Schreiber	121
Bistability and stochastic resonance in an open quantum system T. Wellens and A. Buchleitner	131
Semiclassical electron transfer: Zusman equations versus Langevin approach I. Goychuk, L. Hartmann and P. Hänggi	151
Path-integral approach to a semiclassical stochastic description of quantum dissipative systems J. Casado-Pascual, C. Denk, M. Morillo and R.I. Cukier	165
Wiener-Hermite expansion formalism for the stochastic model of a driven quantum system Y. Kayanuma and K.-i. Noba	177

(continued on inside back page)



0301-0104(20010615)268:1-3;1-K



<http://ChemWeb.com>
The World Wide Club for the Chemical Community

Contents

(continued from outside back cover)

Semi-classical implementation of mapping Hamiltonian methods for general non-adiabatic problems S. Bonella and D.F. Coker	189
Retardation effects in the dynamics of open molecular systems T. Mancal and V. May	201
Non-Markovian homodyne-mediated feedback on a two-level atom: a quantum trajectory treatment J. Wang, H.M. Wiseman and G.J. Milburn	221
The Brownian motion stochastic Schrödinger equation W.T. Strunz	237
Non-Markovian quantum state diffusion J.T. Stockburger and H. Grabert	249
Mechanisms of decoherence at low temperatures M. Dubé and P.C.E. Stamp	257
Decoherence and dephasing in coupled Josephson-junction qubits M. Governale, M. Grifoni and G. Schön	273
Electronic decoherence in condensed phases D.M. Lockwood, H. Hwang and P.J. Rossky	285
Quantum transition state theory for dissipative systems J.-L. Liao and E. Pollak	295
Steady-state quantum mechanics of thermally relaxing systems D. Segal and A. Nitzan	315
A uniqueness-theorem for "linear" thermal baths P. Reimann	337
Inelastic resonant tunneling with wavepackets F. Grossmann	347
Author index	355
Subject index	359
Instructions to authors	365

CONTENTS
Direct

This journal is part of **ContentsDirect**, the *free* alerting service which sends tables of contents by e-mail for Elsevier Science books and journals. You can register for **ContentsDirect** online at: www.elsevier.nl/locate/contentsdirect
